

## EAST Search History

| Ref # | Hits | Search Query   | DBs      | Default Operator | Plurals | Time Stamp       |
|-------|------|--|----------|------------------|---------|------------------|
| L2    | 1    | (surface adj shape and recognizing and sensor adj device and detect adj capacitance and ridges and valleys and signal adj processor and substrate and first adj electrodes and second adj electrode and potential adj controller).CLM. | US-PGPUB | OR               | ON      | 2009/06/28 16:14 |
| L3    | 1379 | 438/48,50.COLS.  | USPAT    | OR               | ON      | 2009/06/28 16:15 |
| L7    | 0    | L3 and sensor adj device and surface adj shape and recogniz\$3   | USPAT    | OR               | ON      | 2009/06/28 16:18 |
| L8    | 186  | L3 and ("2" or 2-D or two adj dimensional\$1)and array and sensor and electrode  | USPAT    | OR               | ON      | 2009/06/28 16:19 |
| L9    | 0    | L8 and sensor and(fingerprint or finger adj print) and sensed and capacitance and generat\$3 adj values and(ridges or valleys)   | USPAT    | OR               | ON      | 2009/06/28 16:20 |
| L10   | 1    | L8 and sensor and(fingerprint or finger adj print) and sensed and capacitance and generat\$3 and (ridges or valleys)   | USPAT    | OR               | ON      | 2009/06/28 16:20 |
| L12   | 1    | L10 and @ad<"20040723"   | USPAT    | OR               | ON      | 2009/06/28 16:22 |
| L13   | 0    | L12 and first adj electrode  | USPAT    | OR               | ON      | 2009/06/28 16:22 |
| L14   | 0    | L12 and second adj electrode   | USPAT    | OR               | ON      | 2009/06/28 16:22 |
| L15   | 1    | L12 and electrode  | USPAT    | OR               | ON      | 2009/06/28 16:22 |
| L16   | 1    | L15 and capacitance  | USPAT    | OR               | ON      | 2009/06/28 16:23 |

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|----|----|---|---|----|----|---------------------|
| S1 | 80 | sensor adj device and surface adj shape and<br>recogniz\$3  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:31 |
| S2 | 0  | S1 and ("2" or 2-D or two adj dimensional\$1)adj<br>array and sensor adj cells and electrode                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:35 |
| S3 | 9  | S1 and ("2" or 2-D or two adj dimensional\$1)and<br>array and sensor adj cells and electrode                                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:36 |
| S5 | 4  | S3 and @ad<"20031130"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:43 |
| S6 | 0  | S5 and (fingerprint or finger adj print)and sensed<br>same capacitance and generat\$3 adj values and<br>(ridges or valleys) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:45 |
| S7 | 0  | S1 and (fingerprint or finger adj print)and sensed<br>same capacitance and generat\$3 adj values and<br>(ridges or valleys) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:45 |
| S8 | 0  | S1 and (fingerprint or finger adj print)and sensed<br>and capacitance and generat\$3 adj values and<br>(ridges or valleys)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:46 |

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| S9  | 2  | sensor adj device and (fingerprint or finger adj print) and sensed and capacitance and generat\$3 adj values and (ridges or valleys) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:46 |
| S10 | 14 | sensor adj device and sensed and capacitance and generat\$3 adj values and (ridges or valleys)                                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:47 |
| S11 | 2  | S10 and @ad<"20031130"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:47 |
| S12 | 2  | S11 and ("2" or 2-D or two adj dimensional\$1) and array   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:50 |
| S13 | 1  | S12 and (fingerprint or finger adj print) and sensed same capacitance and generat\$3 adj values and (ridges or valleys)              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>13:51 |
| S14 | 1  | S13 and (finger adj print or fingerprint)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:01 |
| S15 | 1  | S14 and ("2" or 2-D or two adj dimensional\$1) and array   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:02 |

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| S16 | 0 | S15 and ("2" or 2-D or two adj dimensional\$1) and array and sensor adj cells and electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:02 |
| S17 | 1 | S15 and electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:02 |
| S18 | 0 | S15 and ("2" or 2-D or two adj dimensional\$1) and array and sensor near3 cells and electrode | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:03 |
| S19 | 0 | S15 and ("2" or 2-D or two adj dimensional\$1) and array and cells and electrode              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:03 |
| S20 | 1 | S15 and ("2" or 2-D or two adj dimensional\$1) and array and sensor and electrode             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:03 |
| S21 | 0 | S20 and signals and output and capacitance and electrode and surface adj object               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:05 |
| S22 | 0 | S20 and signals and output and capacitance and surface adj object                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:05 |

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| S23 | 0 | S20 and signals and output and surface adj object   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:06 |
| S24 | 3 | S1 and signals and output and capacitance and first adj electrode and surface adj object  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:06 |
| S25 | 0 | S24 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:06 |
| S26 | 0 | S24 and(@ad<"20031130" or @riad<"20031130" or @prad<"20031130" or @ptad<"20031130")   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:09 |
| S27 | 3 | sensor adj device and surface adj shape and recogniz\$3 and signals and output and capacitance and first adj electrode and surface adj object | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:10 |
| S28 | 5 | calculates and surface adj shape and input adj signals and sensor adj cells   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:14 |
| S29 | 3 | S28 and sensor adj device and surface adj shape and recogniz\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:15 |

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| S30 | 2 | S29 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:15 |
| S31 | 2 | S30 and signals and output and capacitance and electrode and surface adj object               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:16 |
| S32 | 2 | S31 and ("2" or 2-D or two adj dimensional\$1) and array and sensor near3 cells and electrode | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:17 |
| S33 | 0 | S32 and signals and output and capacitance and first adj electrode and surface adj object     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:17 |
| S34 | 0 | S32 and signal and capacitance and first adj electrode and surface adj object                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:18 |
| S35 | 0 | S32 and capacitance and first adj electrode and surface adj object                            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:18 |
| S36 | 0 | S32 and first adj electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:18 |

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| S37 | 2 | S32 and (plurality or plural\$3)and electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:19 |
| S38 | 0 | S32 and (plurality or plural\$3)same electrodes | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:19 |
| S39 | 2 | S32 and (plurality or plural\$3)and electrodes  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:19 |
| S40 | 2 | S39 and @ad<"20031130"                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:19 |
| S41 | 0 | S40 and(charging or discharging)                | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:20 |
| S42 | 2 | S40 and(charging or discharging or electric)    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:21 |
| S43 | 2 | S42 and voltage                                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>14:21 |

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| S44 | 0  | S43 and first adj electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/28<br>14:22 |
| S46 | 93 | ((("5325442") or ("6151013") or ("6326227") or ("6346739") or ("6714666") or ("6330145") or ("6440814") or ("5907627") or ("6144757") or ("6399994") or ("6438257") or ("6842542") or ("7062075") or ("7366332") or ("7508963") or ("20010015431") or ("20010026635") or ("20020181748") or ("20040021786") or ("20050259850") or ("20080187192") or ("6628269") or ("20010013861") or ("6011859") or ("5963657") or ("5973623") or ("6115484") or ("6225711") or ("6225711") or ("5920384") or ("5373181") or ("5778089") or ("5818956") or ("6057540") or ("6084977") or ("6234031") or ("6239027") or ("6333989") or ("6356649") or ("6392636") or ("6483931") or ("6518083") or ("6727561") or ("6765274") or ("6917694") or ("6927844") or ("6987871") or ("7045379") or ("7123026") or ("7205621") or ("").pn.")).PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/04/28<br>14:30 |
| S47 | 0  | S46 and sensor adj device and surface adj shape and recogniz\$3 and signals and output and capacitance and first adj electrode and surface adj object   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/28<br>14:37 |
| S48 | 4  | S46 and sensor adj device and recogniz\$3 and capacitance and electrode and surface adj object  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/28<br>14:38 |



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|-----|------|---|---|----|-----|---------------------|
| S49 | 0    | S48 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/28<br>14:38 |
| S50 | 0    | S48 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/28<br>14:49 |
| S51 | 4    | S48 and(@ad<"20031130" or @rad<"20031130"<br>or @prad<"20031130" or @ptad<"20031130") | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/28<br>14:50 |
| S52 | 2    | ("20050244038").PN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/04/28<br>14:52 |
| S53 | 0    | S52 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/28<br>14:52 |
| S54 | 0    | S52 and @ad<"20030826"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/04/28<br>14:56 |
| S56 | 2270 | 382/124,127,115,116,125,126,299.COLS.   | USPAT   | OR | ON  | 2009/04/28<br>15:12 |
| S57 | 3    | S56 and sensor adj device and surface adj shape<br>and recogniz\$3                    | USPAT   | OR | ON  | 2009/04/28<br>15:13 |

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|-----|---|---|---|----|----|---------------------|
| S58 | 0 | S57 and sensor adj device and(fingerprint or finger adj print)and sensed and capacitance and generat\$3 adj values and (ridges or valleys)            | USPAT   | OR | ON | 2009/04/28<br>15:14 |
| S59 | 3 | S57 and ("2" or 2-D or two adj dimensional\$1) and array  | USPAT   | OR | ON | 2009/04/28<br>15:15 |
| S60 | 0 | S59 and (fingerprint or finger adj print)and sensed same capacitance and generat\$3 adj values and (ridges or valleys)                                | USPAT   | OR | ON | 2009/04/28<br>15:15 |
| S61 | 3 | S59 and (fingerprint or finger adj print)   | USPAT   | OR | ON | 2009/04/28<br>15:15 |
| S62 | 2 | S61 and signals and output and capacitance and electrode and surface adj object   | USPAT   | OR | ON | 2009/04/28<br>15:16 |
| S63 | 0 | S62 and sensor adj device and surface adj shape and recogniz\$3 and signals and output and capacitance and first adj electrode and surface adj object | USPAT   | OR | ON | 2009/04/28<br>15:17 |
| S64 | 8 | S3 and(@ad<"20040723" or @rlad<"20040723" or @prad<"20040723" or @ptad<"20040723")  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:24 |
| S65 | 2 | S62 and(@ad<"20040723" or @rlad<"20040723" or @prad<"20040723" or @ptad<"20040723")   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:26 |
| S66 | 0 | S62 and @ad<"20040723"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:27 |

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| S67 | 4   | S64 and @ad<"20040723"   | US:PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:29 |
| S68 | 3   | S66 and sensor adj device and surface adj shape<br>and recogniz\$3                 | USPAT   | OR | ON | 2009/04/28<br>15:30 |
| S69 | 3   | S68 and ("2" or 2-D or two adj dimensional\$1)<br>and array                        | USPAT   | OR | ON | 2009/04/28<br>15:31 |
| S70 | 3   | S69 and (fingerprint or finger adj print)  | USPAT   | OR | ON | 2009/04/28<br>15:31 |
| S71 | 2   | S70 and signals and output and capacitance and<br>electrode and surface adj object | USPAT   | OR | ON | 2009/04/28<br>15:31 |
| S72 | 2   | S71 and (plurality or plural\$3)same electrodes                                    | USPAT   | OR | ON | 2009/04/28<br>15:32 |
| S73 | 0   | S72 and @ad<"20040723"   | USPAT   | OR | ON | 2009/04/28<br>15:33 |
| S74 | 0   | S72 and @ad<"20040723"   | USPAT   | OR | ON | 2009/04/28<br>15:35 |
| S75 | 432 | 340/5.53,5.83.ccls.  | USPAT   | OR | ON | 2009/04/28<br>15:37 |
| S76 | 2   | S75 and sensor adj device and surface adj shape<br>and recogniz\$3                 | USPAT   | OR | ON | 2009/04/28<br>15:37 |
| S77 | 2   | S76 and ("2" or 2-D or two adj dimensional\$1)<br>and array                        | USPAT   | OR | ON | 2009/04/28<br>15:38 |
| S78 | 2   | S77 and (fingerprint or finger adj print)  | USPAT   | OR | ON | 2009/04/28<br>15:38 |
| S79 | 2   | S78 and signals and output and capacitance and<br>electrode and surface adj object | USPAT   | OR | ON | 2009/04/28<br>15:38 |
| S80 | 2   | S79 and (plurality or plural\$3)same electrodes                                    | USPAT   | OR | ON | 2009/04/28<br>15:38 |

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| S81  | 0    | S80 and @ad<"20040723"  | USPAT   | OR | ON | 2009/04/28<br>15:39 |
| S82  | 1113 | 702/104,130.ccls.   | USPAT   | OR | ON | 2009/04/28<br>15:39 |
| S83  | 4    | S82 and sensor adj device and surface adj shape and recogniz\$3   | USPAT   | OR | ON | 2009/04/28<br>15:40 |
| S84  | 4    | S83 and ("2" or 2-D or two adj dimensional\$1) and array  | USPAT   | OR | ON | 2009/04/28<br>15:40 |
| S85  | 3    | S84 and (fingerprint or finger adj print)   | USPAT   | OR | ON | 2009/04/28<br>15:40 |
| S86  | 2    | S85 and signals and output and capacitance and electrode and surface adj object   | USPAT   | OR | ON | 2009/04/28<br>15:40 |
| S87  | 1    | S86 and @ad<"20040723"  | USPAT   | OR | ON | 2009/04/28<br>15:40 |
| S97  | 1    | (surface and shape adj recognizing and sensor adj cells and two adj dimensionally and capacitances and substrate and first adj electrode and second adj electrode and surface adj object). CLM. | US-PGPUB  | OR | ON | 2009/04/28<br>15:50 |
| S99  | 6    | S46 and sensor adj device and surface adj shape and recogniz\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:51 |
| S100 | 6    | S99 and ("2" or 2-D or two adj dimensional\$1) and array  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:51 |

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|------|----|---|---|----|----|---------------------|
| S101 | 4  | S100 and signals and output and capacitance and electrode and surface adj object  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:52 |
| S102 | 4  | S101 and (plurality or plural\$3)same electrodes  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:52 |
| S103 | 0  | S102 and @ad< "20040723"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:52 |
| S104 | 45 | ((HIROKI) near2 (MORIMURA)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/28<br>15:53 |
| S105 | 18 | ((MAMORU) near2 (NAKANIISHI)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/28<br>15:54 |
| S106 | 81 | ((SATOSHI) near2 (SHIGEMATSU)).INV.   | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/28<br>15:54 |
| S107 | 12 | ((TAKAHIRO) near2 (HATANO)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/28<br>15:54 |
| S108 | 24 | ((YUKIO) near2 (OKAZAKI)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/28<br>15:55 |
| S109 | 72 | ((KATSUYUKI) near2 (MACHIDA)).INV.  | US-PGPUB;<br>USPAT                                      | OR | ON | 2009/04/28<br>15:55 |
| S113 | 1  | S106 and(surface and shape adj recognizing and sensor adj cells and two adj dimensionally and capacitances and substrate and first adj electrode and second adj electrode and surface adj object) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:57 |

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| S114 | 1 | S104 and(surface and shape adj recognizing and sensor adj cells and two adj dimensionally and capacitances and substrate and first adj electrode and second adj electrode and surface adj object) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:57 |
| S115 | 1 | S105 and(surface and shape adj recognizing and sensor adj cells and two adj dimensionally and capacitances and substrate and first adj electrode and second adj electrode and surface adj object) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:57 |
| S116 | 1 | S107 and(surface and shape adj recognizing and sensor adj cells and two adj dimensionally and capacitances and substrate and first adj electrode and second adj electrode and surface adj object) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:57 |
| S117 | 1 | S108 and(surface and shape adj recognizing and sensor adj cells and two adj dimensionally and capacitances and substrate and first adj electrode and second adj electrode and surface adj object) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:58 |
| S118 | 1 | S109 and(surface and shape adj recognizing and sensor adj cells and two adj dimensionally and capacitances and substrate and first adj electrode and second adj electrode and surface adj object) | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>15:58 |
| S119 | 6 | "20050244038"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>16:02 |
| S120 | 0 | S119 and @ad< "20040723"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/04/28<br>16:02 |

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| S121 | 431 | sensing adj array and(plurality or plural\$1)same electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:13 |
| S122 | 98  | S121 and first adj electrode  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:14 |
| S123 | 90  | S122 and second adj electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:15 |
| S124 | 4   | sensing adj array same(plurality or plural\$1)same electrode same first adj electrode same second adj electrode | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:16 |
| S125 | 0   | S124 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")                            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:17 |
| S126 | 0   | S124 and(@ad<"20040723" or @rlad<"20040723" or @prad<"20040723" or @ptad<"20040723")                            | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:18 |
| S127 | 90  | S121 and S123   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:24 |

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| S128 | 68  | S127 and(@ad<"20040723" or @rlad<"20040723" or @prad<"20040723" or @ptad<"20040723")                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:24 |
| S129 | 24  | S128 and first adj electrode and formed adj substrate   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:25 |
| S130 | 12  | S129 and second adj electrode and formed adj substrate and insulated and isolated                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:26 |
| S131 | 0   | S129 and second adj electrode same formed adj substrate same insulated same isolated same first adj electrode | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:28 |
| S132 | 12  | S129 and second adj electrode and formed adj substrate and insulated and isolated and first adj electrode     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/10<br>23:29 |
| S133 | 0   | potential adj controller  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:25 |
| S134 | 693 | potential adj controller  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:25 |



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| S135 | 18 | potential adj controller same capacitance  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:27 |
| S136 | 8  | S135 and(@ad<"20031130" or<br>@rlad<"20031130" or @prad<"20031130" or<br>@ptad<"20031130") | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:27 |
| S137 | 8  | S135 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:28 |
| S138 | 0  | potential adj controller adj circuit same<br>capacitance                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:29 |
| S139 | 3  | potential adj controller adj circuit and capacitance                                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:29 |
| S140 | 3  | S139 and @ad<"20031130"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:29 |
| S141 | 7  | potential adj controller adj circuit   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:30 |

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| S142 | 7  | S141 and @ad<"20031130"                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:30 |
| S143 | 3  | S142 and capacitance                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:30 |
| S144 | 18 | potential adj controller same capacitance | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:33 |
| S145 | 7  | S144 and electrode                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:35 |
| S146 | 2  | S144 and second adj electrode             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:36 |
| S147 | 1  | S146 and @ad<"20031130"                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:38 |
| S148 | 1  | S147 and capacitance                      | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:40 |

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| S149 | 0    | S148 and insulated and isolated               | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:41 |
| S150 | 0    | S148 and isolated                             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:44 |
| S151 | 7149 | capacitance adj circuit                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:45 |
| S152 | 0    | S151 and potential adj controller adj circuit | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:45 |
| S153 | 1    | S151 and potential adj controller             | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:45 |
| S154 | 5071 | S151 and @ad<"20031130"                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:47 |
| S155 | 25   | S154 and (fingerprint or finger adj print)    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/05/14<br>15:51 |

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| S156 | 0      | S155 and potential adj controller                                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/14<br>15:51 |
| S157 | 421758 | capacitance   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/14<br>15:52 |
| S158 | 3      | S157 and potential adj controller adj circuit                           | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/14<br>15:52 |
| S159 | 0      | S158 and (fingerprint or finger adj print)                              | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/14<br>15:52 |
| S160 | 3      | S158 and @ad<"20031130"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/05/14<br>15:53 |
| S161 | 0      | ("dielectricadjmaterialand(pluralityorplural\$1)<br>adjelectrodes").PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2009/06/26<br>17:02 |
| S162 | 3274   | dielectric adj material and(plurality or plural\$1)adj<br>electrodes    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2009/06/26<br>17:04 |

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| S163 | 1      | S162 and sensor adj device and surface adj shape and recogniz\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/26<br>17:05 |
| S164 | 0      | S162 and(fingerprint or finger adj print)and sensed same capacitance and generat\$3 adj values and (ridges or valleys)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/26<br>17:06 |
| S165 | 0      | S162 and sensing adj array same(plurality or plural\$1)same electrode same first adj electrode same second adj electrode | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/26<br>17:06 |
| S166 | 3      | S162 and sensing adj array and(plurality or plural \$1)and electrode and first adj electrode same second adj electrode   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/26<br>17:07 |
| S167 | 0      | S166 and(@ad<"20031130" or @rlad<"20031130" or @prad<"20031130" or @ptad<"20031130")                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/26<br>17:07 |
| S168 | 425767 | capacitance  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/26<br>17:10 |
| S169 | 3      | S168 and potential adj controller adj circuit  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/26<br>17:10 |

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| S170 | 3 | S169 and @ad<"20031130" | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/06/26<br>17:10 |
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